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Г	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	10/649,035	08/27/2003	Larry Kirn	JAM-03002/29	5122
	75	590 12/08/2005		EXAMINER	
	John G. Posa			NGUYEN, KHANH V	
	Gifford, Krass, Groh, Sprinkle, Anderson & Citkowski, P.C.			ART UNIT	PAPER NUMBER
	280 N. Old Woodward Ave., Suite 400			2817	
	Birmingham, N	AI 48009-5394		DATE MAILED: 12/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			AY		
	Application No.	Applicant(s)			
	10/649,035	KIRN, LARRY			
Office Action Summary	Examiner	Art Unit			
	Khanh V. Nguyen	2817			
The MAILING DATE of this communication ap	pears on the cover sheet v	vith the correspondence add	dress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 03 0	October 2005.				
· <u> </u>	s action is non-final.				
3) Since this application is in condition for allowa	ince except for formal ma	tters, prosecution as to the	merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1,4 and 5 is/are pending in the application 4a) Of the above claim(s) is/are withdrates 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1 and 4 is/are rejected.  7) ⊠ Claim(s) 5 is/are objected to.  8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers	·				
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on 21 March 2005 is/are: a) ☐ accepted or b) ☑ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO	l-152)		

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#### **DETAILED ACTION**

# Drawings

In order to avoid abandonment, the drawing informalities noted in the paper mailed on June 01, 2005, must now be corrected. Correction can only be effected in the manner set forth in the above noted paper. Note, The newly submitted drawing Fig. 1 filed on March 21, 2005, voltage divider (123, 124) wasn't label.

## Claim Objections

Claims 1, 4 are objected to because of the following informalities:

Regarding claim 1, page 2, line 5, "course- and fine-resolution data" should correctly be -- course-resolution data and fine-resolution data --.

Regarding claim 4, "the supply rail" should correctly be -- a supply rail --.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1, 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kirn (6,492,868).

Regarding claim 1, Kirn (Figs. 5, 3) discloses a multi-reference switching amplifier having a pulse width modulator (302) comprises a plurality of references (V+ and Ground), wherein the schematic of the pulse width modulator (302) is disclosed in Fig. 5, which comprising: a data separator (506) operative to separate the input data stream into coarse-resolution data and fine-resolution data; a pulse width converter (513) receiving coarse-resolution data (COARSE) can be read as a circuitry for modulating a first one of the references on one side of the load (311) as a function of the coarse-resolution data; and a pulse width converter (514) receiving fine-resolution data (FINE) can be read as a circuitry for modulating a second one of the references on the other side of the load (311) as a function of the fine-resolution data;

Regarding claim 4, wherein voltage supply (V+) can be read as the first one of the references, which is a supply rail.

#### Allowable Subject Matter

Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 5 calls for, among others, the second one of the references is derived through a voltage divider.

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### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference (Kirn (6,509,793)) shows further analogous prior art circuitry switching amplifier having pulse width modulation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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